

What is claimed is:

1. A method for persisting data manipulations in a transaction processing system that consists of a first computer system issuing a data manipulation request to a database having a plurality of records and a second computer system accessing said database according to said data manipulation request, said method comprising:

a step where said first computer system designates a search condition, requesting said second computer system to retrieve records that satisfy said search condition from said database; a step where said second computer system retrieves all records that satisfy said search condition designated by said first computer system from said database, sending the contents thereof back to said first computer system;

a step where said first computer system executes preset data manipulations on a memory to said database object, which corresponds to contents of records retrieved by said second computer system, recording the contents of said data manipulations into said memory as a log by a record;

a step where said first computer system stores the contents of said database object and said log after the data manipulations into a message, sending the message to the second computer system when all of said preset data manipulations to the database object are completed; and

a step where said second computer system accesses said database according to the contents of said log in said message received from said first computer system and the second computer system reflects said database object to said database.

2. The data manipulation persisting method in a transaction processing system according to claim 1, wherein said first computer system only stores the database object whose contents are updated by said data manipulations and the database object that is added by said data manipulation in said message to send it to the second computer system.

3. The data manipulation persisting method in a transaction processing system according to claim 1, wherein said first computer system stores contents of a database object after the final data manipulation in said message to send it to said second computer system when a plurality of data manipulations were executed for said database object.

4. The data manipulation persisting method in a transaction processing system according to claim 3, wherein said first computer system stores contents of only one log, which is needed to reflect said database object stored in said message to said database, in said message when a plurality of data manipulations were executed for said database object.

5. The data manipulation persisting method in a transaction processing system according to claim 4, wherein said first computer system stores one update log and contents after the final update in said message with respect to a predetermined database object when update was repeated to said database object.

6. The data manipulation persisting method in a transaction processing system according to claim 4, wherein said first computer system stores one insertion log and contents after the update in a message with respect to a predetermined database object when update was executed after insertion for said database object.

7. The data manipulation persisting method in a transaction processing system according to claim 4, wherein said first computer system stores one deletion log in said message and does not store contents with respect to a predetermined database object when deletion was executed after update for said database object.

8. The data manipulation persisting method in a transaction processing system according to claim 4, wherein said first computer system does not store a log and contents with respect to a predetermined database object when deletion was executed

after insertion for said database object.

9. A data manipulating program for a remote database comprising:

a first step where a client computer, which communicates with a server computer accessing a database to execute transaction for said database, designates a search condition, requesting said server computer to retrieve records that satisfy said search condition from said database;

a second step where said client computer executes preset data manipulations on a memory to an database object, which corresponds to contents of the records retrieved by said server computer, recording the contents of the data manipulations into said memory as a log by a record; and

a third step where said client computer stores the contents of said database object and said log after said data manipulations into a message, sending said message to said server computer, thereby requesting to reflect said database object to said database when all of said preset data manipulations to said database object are completed.

10. The data manipulating program for a remote database according to claim 9, wherein modules that make said client computer execute said first and second steps are programmed to vary from one business content to another, and wherein a

module that makes said client computer execute said third step  
is programmed to be common to all business contents.